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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/966,745	10/01/2001	Shlomo Yitzchaik	BURTMAN=IA	3709
1444	7590 07/11/2003			
BROWDY AND NEIMARK, P.L.L.C.			EXAMINER	
624 NINTH S' SUITE 300	,		TRUONG, DUC	
WASHINGTON, DC 20001-5303			ART UNIT	PAPER NUMBER
			1711	13
			DATE MAILED: 07/11/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

•		A			
	Application No.	Applicant(s)			
	09/966,745	YITZCHAIK, SHLOMO			
Office Action Summary	Examin r	Art Unit			
•	Duc Truong	1711			
Th MAILING DATE of this communication ap Period for Reply	op ars on the cover shet with t	h correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a replevable. - If NO period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by staturent or the period for reply will, by staturent or the period for reply will. - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply ply within the statutory minimum of thirty (30 d will apply and will expire SIX (6) MONTHS te, cause the application to become ABAND	be timely filed)) days will be considered timely. from the mailing date of this communication. DONED (35 U.S.C. § 133).			
1) Responsive to communication(s) filed on	,				
2a) ☐ This action is FINAL . 2b) ☑ T	his action is non-final.				
Since this application is in condition for allow closed in accordance with the practice unde Disposition of Claims					
4)⊠ Claim(s) <u>1-26 and 39-56</u> is/are pending in the	e application.				
4a) Of the above claim(s) is/are withdra	awn from consideration.				
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-26 and 39-56</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/	or election requirement.				
Application Papers					
9)☐ The specification is objected to by the Examiner.					
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
11) ☐ The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved by the Examiner.					
If approved, corrected drawings are required in r	• •				
12) The oath or declaration is objected to by the E	xaminer.				
Priority under 35 U.S.C. §§ 119 and 120					
13) Acknowledgment is made of a claim for foreig	gn priority under 35 U.S.C. § 1	19(a)-(d) or (f).			
a) ☐ All b) ☐ Some * c) ☐ None of: —					
1. Certified copies of the priority documer	nts have been received.				
2. Certified copies of the priority documer	• •				
 3. ☐ Copies of the certified copies of the pri application from the International B * See the attached detailed Office action for a list 	Bureau (PCT Rule 17.2(a)).				
14) ☐ Acknowledgment is made of a claim for domes	stic priority under 35 U.S.C. § 1	19(e) (to a provisional application).			
a) The translation of the foreign language polynomial The translation of the	• •				
Attachment(s)					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Infor	nmary (PTO-413) Paper No(s) rmal Patent Application (PTO-152) .			

Art Unit: 1711

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-26 and 39-56 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kubono in view of Forrest, both of record on 1449.

Kubono discloses the vapor deposition of -conjugated polymers in that the molecular orientation in films of the polymers can be perpendicular or parallel to the substrate (see page 420).

In order to fabricate polymer thin films with a molecular orientation perpendicular to the substrate, a mechanism for the vapor deposition of linear long chain molecules (see page 396), can be applied to the VDP process (see page 425, section 4.2).

The disclosure of the reference differs from the instant claims in that it does not disclose specific components nor the use in the claimed of forming monolayer and multi-layered structure.

Forrest discloses the cryatalline order of compounds such as perylene tetracarboxylic dianhydride or naphthalene tetracarboxylic dianhydride,---,on a variety of substrate, deposited in both monolayer and multi-layer thin-film stacks using the ultrahigh-vacuum process organic molecular beam deposition, to have vacuum quasiepitaxial growth of thin films.

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It would have been obvious to one of ordinary skill in the art to select the dianhydrides from the Forrest reference to determine the conjugated polymers, as disclosed in Kubono, in the method of forming a multi-layered structure, in order to gain the advantages of the combination of the references, that being a epitaxial vapor deposition polymerization can be used with reactants such as dianhydrides in the method of forming a multi-layered structure, to have the crystalline order in Z-axis oriented. Forrest provides evidence that perylene tetracarboxylic dianhydride and naphthalene tetracarboxylic dianhydride is well known in the art in the epitaxial vapor deposition polymerization to form a multi-layered structure.

The determination of said reactants in the claimed method to form a multi-layered structure would nor provide an unexpected result to one of ordinary skill in the art.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Duc Truong whose telephone number is 703-308-2437. The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James Seidleck can be reached on 703-308-2462. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9310 for regular communications and 703-872-9311 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0661.

DUCTRUONG

PRIMARY EXAMINER